

ALTERNATIVE TO PTO/SB/08aib (07-05)



Substitute for form 1449/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/542,184	
			Filing Date	(Intl.) January 20, 2004	
			First Named Inventor	Alun DAVIES	
			Art Unit	1646	
			Examiner Name	Z. Howard	
Sheet	1	of	3	Attorney Docket Number	514712000800

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1.	US-5,565,332-A	10-15-1996	Hoogenboom et al.	
	2.	US-5,580,717-A	12-03-1996	Dower et al.	
	3.	US-5,733,743-A	03-31-1998	Johnson et al.	
	4.	US-6,265,150-B1	07-24-2001	Terstappen et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			†
	5.	Amann, R. et al. (1995). "Intraplantar Injection of Nerve Growth Factor into the Rat Hind Paw: Local Edema and Effects on Thermal Nociceptive Threshold," <i>Pain</i> 64:323-329.			
	6.	Andreev, N.Y. et al. (1995). "Peripheral Administration of Nerve Growth Factor in the Adult Rat Produces a Thermal Hyperalgesia that Requires the Presence of Sympathetic Post-Ganglionic Neurons," <i>Pain</i> 63:109-115.			
	7.	Bischoff, S.C. et al. (May 15, 1992). "Effect of Nerve Growth Factor on the Release of Inflammatory Mediators by Mature Human Basophils," <i>Blood</i> 79(10):2662-2669.			
	8.	Bonini, S. et al. (October 1996). "Circulating Nerve Growth Factor Levels are Increased in Humans With Allergic Diseases and Asthma," <i>Proc. Natl. Acad. Sci. USA</i> 93:10955-10960.			
	9.	Bracci-Laudiero, L. et al. (1992). "Multiple Sclerosis Patients Express Increased Levels of β -Nerve Growth Factor in Cerebrospinal Fluid," <i>Neurosci Lett.</i> 147:9-12.			
	10.	Bracci-Laudiero, L. et al. (May 1993). "Increased Levels of NGF in Sera of Systemic Lupus Erythematosus Patients," <i>Neuroreport</i> 4(5):563-565.			
	11.	Braun, A. et al. (1998). "Role of Nerve Growth Factor in a Mouse Model of Allergic Airway Inflammation and Asthma," <i>Eur. J. Immunol.</i> 28:3240-3251.			
	12.	Broude, N.E. et al. (June 2002). "Stem-loop Oligonucleotides: A Robust Tool for Molecular Biology and Biotechnology," <i>Trends in Biotechnology</i> 20(6):249-256.			
	13.	Carroll, S.L. et al. (October 1992). "Dorsal Root Ganglion Neurons Expressing trk Are Selectively Sensitive to NGF Deprivation In Utero," <i>Neuron</i> 9(4):779-788.			
	14.	Chao, M.V. et al. (April 1986). "Gene Transfer and Molecular Cloning of the Human NGF Receptor," <i>Science</i> 232:518-521.			
	15.	Crowley, C. et al. (March 25, 1994). "Mice Lacking Nerve Growth Factor Display Perinatal Loss of Sensory and Sympathetic Neurons yet Develop Basal Forebrain Cholinergic Neurons," <i>Cell</i> 76:1001-1011.			
	16.	Davies, A.M. et al. (November 1993). "Neurotrophin-4/5 Is a Mammalian-Specific Survival Factor for Distinct Populations of Sensory Neurons," <i>The Journal of Neuroscience</i> 13(11):4961-4967.			

Examiner Signature	/Zachary Howard/	Date Considered	02/18/2009
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Z.H./

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17.	Di Marco, E. et al. (October 25, 1993). "Nerve Growth Factor Binds to Normal Human Keratinocytes Through High and Low Affinity Receptors and Stimulates Their Growth by a Novel Autocrine Loop," <i>J. Biol. Chem.</i> 268(30):22838-22846.
18.	DiStefano, P.S. et al. (May 1992). "The Neurotrophins BDNF, NT-3, and NGF Display Distinct Patterns of Retrograde Axonal Transport in Peripheral and Central Neurons," <i>Neuron</i> 8(5):983-993.
19.	Dyck, P.J. et al. (1997). "Intradermal Recombinant Human Nerve Growth Factor Induces Pressure Allodynia and Lowered Heat-Pain Threshold in Humans," <i>Neurology</i> 48:501-505.
20.	Falcini, F. et al. (1996). "Increased Circulating Nerve Growth Factor is Directly Correlated with Disease Activity in Juvenile Chronic Arthritis," <i>Ann. Rheum. Dis.</i> 55:745-748.
21.	Hoover, J.E. et al. eds. (1975). <i>Remington's Pharmaceutical Sciences</i> , 15th Edition, Mack Publishing Co.: Easton, PA (Table of Contents Only.)
22.	Horigome, K. et al. (July 15, 1993). "Mediator Release from Mast Cells by Nerve Growth Factor," <i>J. Biol. Chem.</i> 268(20):14881-14887.
23.	Indo, Y. (2001). "Molecular Basis of Congenital Insensitivity to Pain With Anhidrosis (CIPA): Mutations and Polymorphisms in <i>TRKA (NTRK1)</i> Gene Encoding the Receptor Tyrosine Kinase for Nerve Growth Factor," <i>Human Mutation</i> 18(6):462-471.
24.	Leon, A. et al. (April 1994). "Mast Cells Synthesize, Store, and Release Nerve Growth Factor," <i>Proc. Natl. Acad. Sci. USA</i> 91:3739-3743.
25.	Levison, P.R. et al. (August 7, 1998). "Recent Developments of Magnetic Beads for Use in Nucleic Acid Purification," <i>J. Chromatogr. A</i> 816(1):107-111.
26.	Lindsay, R.M. (July 1988). "Nerve Growth Factors (NGF, BDNF) Enhance Axonal Regeneration But Are Not Required for Survival of Adult Sensory Neurons," <i>J. Neurosci.</i> 8(7):2394-2405.
27.	Lindsay, R.M. et al. (January 26, 1989). "Nerve Growth Factor Regulates Expression of Neurotrophic Genes in Adult Sensory Neurons," <i>Nature</i> 337:362-364.
28.	Matsuda, H. et al. (September 1988). "Nerve Growth Factor Promotes Human Hemopoietic Colony Growth and Differentiation," <i>Proc. Natl. Acad. Sci. USA</i> 85:6508-6512.
29.	McCafferty, J. et al. (December 6, 1990). "Phage Antibodies: Filamentous Phage Displaying Antibody Variable Domains," <i>Nature</i> 348:552-553.
30.	McMahon, S.B. et al. (May 1994). "Expression and Coexpression of Trk Receptors in Subpopulations of Adult Primary Sensory Neurons Projecting to Identified Peripheral Targets," <i>Neuron</i> 12:1161-1171.
31.	Miura, Y. et al. (January 2000). "Mutation and Polymorphism Analysis of the <i>TRKA (NTRK1)</i> Gene Encoding a High-Affinity Receptor for Nerve Growth Factor in Congenital Insensitivity to Pain with Anhidrosis (CIPA) Families," <i>Human Genetics</i> 106(1):116-124.
32.	Mu, X. et al. (September 1993). "Neurotrophin Receptor Genes Are Expressed in Distinct Patterns in Developing Dorsal Root Ganglia," <i>J. Neuroscience</i> 13(9):4029-4041.
33.	Otten, U. et al. (1985). "Nerve Growth Factor Induces Plasma Extravasation in Rat Skin," <i>Eur. J. Pharmacol.</i> 106:199-201.
34.	Otten, U. et al. (December 1989). "Nerve Growth Factor Induces Growth and Differentiation of Human B Lymphocytes," <i>Proc. Natl. Acad. Sci. USA</i> 86:10059-10063.
35.	Pearce, F.L. et al. (1986). "Some Characteristics of Histamine Secretion From Rat Peritoneal Mast Cells Stimulated with Nerve Growth Factor," <i>J. Physiol.</i> 372:379-393.
36.	Petty, B.G. et al. (1994). "The Effect of Systemically Administered Recombinant Human Nerve Growth Factor in Healthy Human Subjects," <i>Annals Neurol.</i> 36:244-246.
37.	Pezet, S. et al. (July 1, 1999). "Chronic Pain is Associated with Increased TrkA Immunoreactivity in Spinothalamic Neurons," <i>J. Neurosci.</i> 19(13):5482-5492.
38.	Raychaudhuri, S.P. et al. (1998). "Psoriatic Keratinocytes Express High Levels of Nerve Growth Factor," <i>Acta Derm Venereol.</i> 78:84-86.
39.	Richardson, P.M. et al. (July 1984). "Uptake of Nerve Growth Factor Along Peripheral and Spinal Axons of Primary Sensory Neurons," <i>J. Neurosci.</i> 4(7):1683-1689.

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40.	Richardson, P.M. et al. (October 1986). "The Induction of a Regenerative Propensity in Sensory Neurons Following Peripheral Axonal Injury," <i>J. Neurocyt.</i> 15(5):585-594.	
41.	Smyene, R.J. et al. (March 17, 1994). "Severe Sensory and Sympathetic Neuropathies in Mice Carrying a Disrupted Trk/NGF Receptor Gene," <i>Nature</i> 368:246-249.	
42.	Torcia, M. et al. (May 3, 1996). "Nerve Growth Factor Is an Autocrine Survival Factor for Memory B Lymphocytes," <i>Cell</i> 85:345-356.	
43.	Tyagi, S. et al. (January 1998). "Multicolor Molecular Beacons for Allele Discrimination," <i>Nature Biotechnology</i> 16:49-53.	
44.	Ueyama, T. et al. (1993). "Production of Nerve Growth Factor by Cultured Vascular Smooth Muscle Cells From Spontaneously Hypertensive and Wistar-Kyoto Rats," <i>J. Hypertens.</i> 11:1061-1065.	
45.	Verge, V.M.K. et al. (March 1989). "Nerve Growth Factor Receptors on Normal and Injured Sensory Neurons," <i>J. Neurosci.</i> 9(3):914-922.	
46.	Verge, V.M.K. et al. (October 1989). "Histochemical Characterization of Sensory Neurons with High-Affinity Receptors for Nerve Growth Factor," <i>J. Neurocyt.</i> 18(5):583-591.	
47.	Verge, V.M.K. et al. (June 1990). "Influence of Nerve Growth Factor on Neurofilament Gene Expression in Mature Primary Sensory Neurons," <i>J. Neurosci.</i> 10(8):2018-2025.	
48.	Verge, V.M.K. et al. (October 1992). "Colocalization of NGF Binding Sites, trk mRNA, and Low-Affinity NGF Receptor mRNA in Primary Sensory Neurons: Responses to Injury and Infusion of NGF," <i>J. Neurosci.</i> 12(10):4011-4022.	
49.	Winter, G. et al. (1994). "Making Antibodies by Phage Display Technology," <i>Annu. Rev. Immunol.</i> 12:433-455.	
50.	Wittwer, C.T. et al. (December 2001). "Real-Time Multiplex PCR Assays," <i>Methods</i> 25(4):430-442.	
51.	Wright, D.E. et al. (January 16, 1995). "Neurotrophin Receptor mRNA Expression Defines Distinct Populations of Neurons in Rat Dorsal Root Ganglia," <i>J. Comp. Neurol.</i> 351(3):329-338.	

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